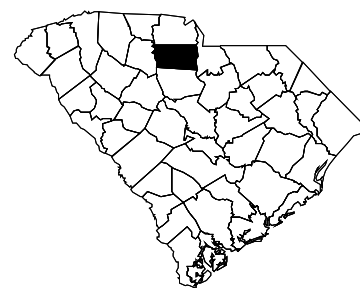


IMPACT OF CHRONIC CONDITIONS CHESTER County, 2005



In the year 2005, the leading causes of death among South Carolinians were heart disease, cancer, stroke, accidents, chronic lower respiratory disease, Alzheimer's disease, diabetes, nephritis, nephritic syndrome, nephrosis, pneumonia and influenza and septicemia. This report focuses on the chronic conditions of the population of Chester county, and is compared to the overall chronic conditions of the population of South Carolina as a whole.

The distribution of Chester county's population is similar to the state population. The majority (35%) of the population in Chester county are between the ages of 18-44. There are more females (52%) than males (48%). However, Chester county has a higher minority population (39%) than the state (31%). When adults in DHEC's Region 3 which includes Chester County, were asked about their general health status, 85.5% reported having excellent, very good, or good health in 2005 (SC was 82%).

	CHESTER COUNTY	STATE
Population size	33,228	4,255,083
Age distribution (%)		
<18	25	24
18-44	35	38
45-64	27	25
65-84	12	11
85+	2	2
Race (%)		
White	61	69
Black & Other	39	31
Sex (%)		
Male	48	49
Female	52	51

In spite of the overall reports of good health given by the citizens of the Palmetto State, chronic conditions are still making an impact on the health of many South Carolinians. Through primary and secondary prevention we hope to reduce the risk factors that contribute to the major chronic diseases and leading causes of death among South Carolinians.

The chart below contains the risk factors that contribute to an increased risk of developing a chronic condition. These risk factors are related to the major causes of morbidity and mortality among South Carolinians. Some common behavioral risk factors that contribute to the leading causes of death are smoking, sedentary lifestyle, obesity, and high cholesterol. The prevalence of these risk factors from the 2005 South Carolina Behavioral Risk Factor Surveillance System (BRFSS) survey are listed in the table below for Chester County.

RISK FACTOR	COUNTY (%)	STATE (%)
Current smoking	25	22
Sedentary lifestyle	26	26
Overweight	66	65
High Cholesterol	45	37

Some preventive measures such as immunization were included in the 2005 SC BRFSS. For persons age 65 and older in South Carolina:

39.1% have not received the flu shot in the past 12 months

34.4% have never had the pneumonia vaccination

Hospital/ED data in the following tables include ONLY those cases treated in SC hospitals. Cases treated in hospitals outside of SC are NOT included.

HYPERTENSION AND HYPERTENSIVE DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)	46.9	.	.	.	.	31.7
Number of hospitalizations	48	28	20	20	28	5,032
Crude rate of hospitalizations (per 100,000)	144	216	99	125	162	118
Median age of hospitalized patients	52	52	47	42	57	57
Total cost of hospitalization (\$)	759,600	451,600	308,000	358,700	400,900	109,400,500
Average length of hospital stay (days)	4	5	3	4	4	5
Number of ED visits	144	96	47	61	83	7,466
Crude rate of ED visits (per 100,000)	433	739	232	382	481	175
Median age of ED patients	47	47	52	47	50	52
Total cost of ED visits (\$)	111,600	79,400	32,200	47,400	64,200	9,929,000
Number of deaths**	7	7	-	2	5	423
Age-Adjusted Death rate (per 100,000)**	18	66	-	9	23	10

DISEASES OF THE HEART	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	3.6	.	.	.	.	4.1
Number of hospitalizations	878	232	646	478	400	60,901
Crude rate of hospitalizations (per 100,000)	2,642	1,787	3,191	2,991	2,319	1,431
Median age of hospitalized patients	67	62	67	62	72	67
Total cost of hospitalization (\$)	28,489,000	6,714,800	21,774,200	16,586,300	11,902,700	2,286,836,400
Average length of hospital stay (days)	4	4	4	4	5	5
Number of ED visits	178	63	115	84	94	12,989
Crude rate of ED visits (per 100,000)	536	485	568	526	545	305
Median age of ED patients	67	57	67	62	67	62
Total cost of ED visits (\$)	384,000	119,800	264,200	199,700	184,300	42,115,900
Number of deaths**	93	31	62	42	51	9,328
Age-Adjusted Death rate (per 100,000)**	261	290	244	301	232	218

STROKE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	2.9	.	.	.	.	3
Number of hospitalizations	160	57	103	84	76	13,925
Crude rate of hospitalizations (per 100,000)	482	439	509	526	441	327
Median age of hospitalized patients	67	62	72	67	70	72
Total cost of hospitalization (\$)	3,240,500	1,279,700	1,960,800	1,847,100	1,393,400	384,441,600
Average length of hospital stay (days)	4	6	3	4	4	6
Number of ED visits	25	6	19	9	16	2,515
Crude rate of ED visits (per 100,000)	75	46	94	56	93	59
Median age of ED patients	62	52	62	62	62	67
Total cost of ED visits (\$)	83,000	20,100	62,900	26,300	56,700	9,113,000
Number of deaths**	27	14	13	10	17	2,440
Age-Adjusted Death rate (per 100,000)**	77	142	52	73	78	59

CHRONIC OBSTRUCTIVE PULMONARY DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	232	67	162	81	151	15,753
Crude rate of hospitalizations (per 100,000)	698	516	800	507	875	370
Median age of hospitalized patients	57	52	62	62	57	62
Total cost of hospitalization (\$)	3,172,400	776,400	2,396,000	1,007,400	2,165,000	268,425,300
Average length of hospital stay (days)	4	4	4	4	5	5
Number of ED visits	464	234	230	191	273	36,543
Crude rate of ED visits (per 100,000)	1,396	1,802	1,136	1,195	1,583	859
Median age of ED patients	37	32	45	32	42	37
Total cost of ED visits (\$)	360,900	163,600	197,300	147,200	213,700	40,613,700
Number of deaths**	18	2	16	9	9	1,968
Age-Adjusted Death rate (per 100,000)**	50	23	61	60	42	46

DIABETES	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	9.8	.	.	.	.	10.3
Number of hospitalizations	150	71	79	67	83	9,027
Crude rate of hospitalizations (per 100,000)	451	547	390	419	481	212
Median age of hospitalized patients	52	57	47	57	52	52
Total cost of hospitalization (\$)	3,221,100	1,259,100	1,962,000	1,825,500	1,395,600	179,747,700
Average length of hospital stay (days)	5	5	5	6	4	6
Number of ED visits	103	51	52	34	69	9,603
Crude rate of ED visits (per 100,000)	310	393	257	213	400	226
Median age of ED patients	52	47	52	52	47	52
Total cost of ED visits (\$)	127,500	64,000	63,500	45,000	82,500	13,447,300
Number of deaths**	13	6	7	7	6	1,183
Age-Adjusted Death rate (per 100,000)**	32	50	23	33	28	27

ALL CANCERS	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	152	57	95	86	66	16,389
Crude rate of hospitalizations (per 100,000)	457	439	469	538	383	385
Median age of hospitalized patients	62	57	62	62	62	62
Total cost of hospitalization (\$)	5,025,700	1,742,400	3,283,300	3,281,800	1,743,900	664,309,500
Average length of hospital stay (days)	6	6	7	7	5	8
Number of deaths**	81	29	52	45	36	8,617
Age-Adjusted Death rate (per 100,000)**	216	256	200	282	169	196

COLORECTAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	22	8	14	16	6	2,070
Crude rate of hospitalizations (per 100,000)	66	62	69	100	35	49
Median age of hospitalized patients	62	65	62	57	75	67
Total cost of hospitalization (\$)	1,213,400	575,500	637,900	898,300	315,100	101,377,700
Average length of hospital stay (days)	9	9	9	7	13	10
Number of deaths**	5	2	3	2	3	812
Age-Adjusted Death rate (per 100,000)**	14	22	11	13	14	19

BREAST CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	14	6	8	-	14	1,228
Crude rate of hospitalizations (per 100,000)	81	89	76	-	57	56
Median age of hospitalized patients	60	52	70	-	60	62
Total cost of hospitalization (\$)	183,000	90,900	92,100	-	183,000	26,163,000
Average length of hospital stay (days)	2	2	2	-	2	3
Number of deaths**	7	4	3	-	7	651
Age-Adjusted Death rate (per 100,000)**	33	53	22	-	33	26

CERVICAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	2	-	2	-	2	192
Crude rate of hospitalizations (per 100,000)	12	-	19	-	12	9
Median age of hospitalized patients	42	42	-	-	42	47
Total cost of hospitalization (\$)	25,400	-	25,400	-	25,400	4,668,500
Average length of hospital stay (days)	3	-	3	-	3	4
Number of deaths**	-	-	-	-	-	63
Age-Adjusted Death rate (per 100,000)**	-	-	-	-	-	3

LUNG CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	22	8	14	13	9	2,181
Crude rate of hospitalizations (per 100,000)	66	62	69	81	52	51
Median age of hospitalized patients	62	62	62	62	62	67
Total cost of hospitalization (\$)	694,300	181,600	512,700	426,600	267,700	92,775,300
Average length of hospital stay (days)	7	7	7	8	6	9
Number of deaths**	26	6	20	18	8	2,703
Age-Adjusted Death rate (per 100,000)**	69	51	76	114	39	61

PROSTATE CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	13	7	6	13	-	1,209
Crude rate of hospitalizations (per 100,000)	81	112	62	61	-	58
Median age of hospitalized patients	62	62	62	62	-	62
Total cost of hospitalization (\$)	270,800	176,700	94,100	270,800	-	30,356,600
Average length of hospital stay (days)	3	5	2	3	-	4
Number of deaths**	1	-	1	1	-	460
Age-Adjusted Death rate (per 100,000)**	6	-	9	6	-	30

*Prevalence estimates at regional level

**Mortality data were provided by Division of Biostatistics, Office of Public Health Statistics and Information Systems, DHEC using ICD-10 codes.

All hospitalizations of Blacks include Blacks and Others.

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